

Policy Tools for Promoting Clean Energy

NJBPU's Comprehensive Program – A full toolbox Michael Winka

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Green Power Purchase

Putting our Money Where our Mouth is

12% of states electricity green

86,000,000 kWh

30,000 tons CO2 – 40 tons NOx

85 State agencies

2002 USDOE Green Power Award

Entering 3 contract – 5years total

Remaining electricity cleaner than average X

Most Important Tool Human Resource

Teamwork between State agencies

- Energy Regulation
- Energy Office
- Environmental Agency
- Energy Code/Appliance Standards

Teamwork between States

Teamwork with Regional/National orgs

Cost of RPS Task Force Recommendations



Double the Current RPS to 4% by 2008

Setting a Target of 20% by 2020

2004 \$1 per Household*

2004 typical household electricity cost - \$1300/yr

2020 \$11 per Household*

2020 typical household electricity cost - \$2000/yr

* Determined by the RPA for the PV and Wind Incentives

RPS Task Force Recommendations Class I Incentives

120,000 MWh of PV (90 MW) Generation by 2008 in NJ

"New Jersey – The Persian Gulf of Flat Roofs"

Tom Layden Powerlight





RPS Task Force Recommendations Class I Incentives

- Certificate tracking system
- Alternate Compliance Payment
- Aggregation of CORE for RPS
- RPS Reciprocity

Good Balance BetweenRegulations and Market Incentives

\$60 Million Renewable Energy Financing Private sector leveraging 3:1

- \$ 45 million long term bond financing
- \$ 10 million for EE/RE for Customer side onsite projects
- \$ 5 million for Innovative RE Projects
- Program financed through NJEDA

New Jersey Clean Energy Program

2002 Results

Annual Fund \$124 million **Annual Lifetime Savings** \$383 million (present value) **Avoided Emissions** 150,000 MT CO2 Cost per Household

\$10-20 per hh per year

New Jersey Clean Energy Program



Annual Savings

- 272,764,000 kWhs
- 14,662,740 therms

Lifetime Savings

- 4,106,226,000 kWhs
- 279,373,240 therms

Cost for Savings

\$0.03/kWh & \$0.17/therm

Other Energy Tools

- Green Building
 Governor's EO 24 \$ 8.6 billion k-12
 School Construction Program
 LEED as guidance to Promote EE
- Greenhouse Gas Goal
 Statewide goal 3.5% reduction
 GHG Registry/Emissions Trading
- Energy Codes/Appliance Standards

New Jersey Clean Energy Program

2002 Results – Needs Work

Under Utilized Tool – Planning Tool for
Resource Acquisition

\$ 7 million Annual Savings 200 MW Maintenance mode

Develop Program at Distribution Energy Efficiency Portfolio Standards

Contact Us

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New Jersey Clean Power Estimator